



The screenshot displays an online Java compiler interface. The top navigation bar includes links for 'Courses', 'ooolab/WEEK8 at master · aditiak...', and 'Online Java Compiler - online ed...'. The browser address bar shows 'onlinegdb.com/online_java_compiler'. The interface features a toolbar with icons for 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and 'Download'. The language is set to 'Java'. The main editor area contains a Java program with the following code:

```
19 dim1 = a;
20 dim2 = b;
21 }
22 double printArea(){
23     System.out.println("Inside the Triangle");
24     return dim1*dim2/2;
25 }
26 }
27
28 class Circle extends Shape{
29     Circle(double a){
30         dim1 = a;
31     }
32     double printArea(){
33         System.out.println("Inside the Circle");
34         return 3.14*dim1*dim1;
35     }
36 }
37
38 class Main{
39     public static void main(String args[]){
40         Rectangle r = new Rectangle(10,20);
41         Triangle t = new Triangle(20,30);
42         Circle c = new Circle(35);
43
44         System.out.println("Area of Rectangle is:" +r.printArea());
45         System.out.println("Area of Triangle is:" +t.printArea());
46         System.out.println("Area of Circle is:" +c.printArea());
47     }
48 }
```

Below the code editor, the output window shows the following results:

```
Area of Rectangle is:200.0
Inside the Triangle
Area of Triangle is:300.0
Inside the Circle
Area of Circle is:3846.5

...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the image shows a Windows taskbar with the search bar and several application icons.

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Run Debug Stop Share Save Beautify

Language Java

Main.java

```
1 import java.util.Scanner;
2
3 abstract class Account{
4     String c_name, acc_type;
5     int acc_num;
6     double balance;
7     int minbalance = 2000;
8     Account(String c_name, int acc_num, double balance){
9         this.c_name = c_name;
10        this.acc_num = acc_num;
11        this.balance = balance;
12        this.acc_type = acc_type;
13    }
14
15    abstract void addbal(double amount);
16    abstract void display();
17    abstract void withdraw(double amount);
18 }
19
20 class curr_acct extends Account{
21     curr_acct(String c_name, int acc_num, double balance){
22         super(c_name, acc_num, balance);
23         System.out.println("Details of the customer:");
24         System.out.println("Customer name: " +c_name +"\tAccount number: " +acc_num+ "\tBalance: " +balance+ "Account type: current");
25     }
26
27     void addbal(double amount){
28         this.balance += amount;
29     }
30
31     void display(){
32         System.out.println("The balance is:" +this.balance);
33     }
34
35     void withdraw(double amount){
36         if(this.balance<amount){
37             System.out.println("Insufficient funds");
38             System.out.println("Yor balance is: " +this.balance);
39         }
40     }
41 }
```

input

Balance: 48847.0

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Run Debug Stop Share Save Beautify

Language Java

```
31- void display(){
32-     System.out.println("The balance is:" +this.balance);
33- }
34-
35- void withdraw(double amount){
36-     if(this.balance<amount){
37-         System.out.println("Insufficient funds");
38-         System.out.println("Yor balance is: " +this.balance);
39-         return;
40-     }
41-     this.balance = this.balance - amount;
42-     if(this.balance<minbalance){
43-         this.balance = this.balance - this.balance*0.5;
44-         System.out.println("A penalty of Rs. " +this.balance*0.5 + "has been charged as minimum balance is not satisfied");
45-         System.out.println("Updated Balance: " +this.balance);
46-         System.out.println("Cannot withdraw");
47-     }
48-     else if(balance> minbalance){
49-         this.balance = this.balance - amount;
50-         System.out.println("Balance is: " +this.balance);
51-     }
52- }
53- }
54-
55- class sav_acct extends Account{
56-     sav_acct(String c_name, int acc_num, double balance){
57-         super(c_name, acc_num, balance);
58-         System.out.println("Customer name: " +c_name +"\tAccount number: " +acc_num+ "\tBalance: " +balance+ "Account type: savings");
59-     }
60-     void addbal(double amount){
61-         this.balance += amount;
62-     }
63-
64-     void display(){
65-         System.out.println("The balance is:" +this.balance);
66-     }
67-
68-     void withdraw(double amount){
```

input

Balance: 48847.0

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Language Java

```
68- void withdraw(double amount){
69-     if(this.balance<amount){
70-         System.out.println("Insufficient funds");
71-         System.out.println("Your balance is: " +this.balance);
72-     }
73-     this.balance = this.balance - amount;
74-     if(this.balance<minbalance){
75-         this.balance = this.balance - this.balance*0.5;
76-         System.out.println("A penalty of Rs. " +this.balance*0.5 + "has been charged as minimum balance is not satisfied");
77-         System.out.println("Updated Balance: " +this.balance);
78-         System.out.println("Cannot withdraw");
79-     }
80-     else if(balance> minbalance){
81-         this.balance = this.balance - amount;
82-         System.out.println("Balance is: " +this.balance);
83-     }
84- }
85-
86- void intrest(double amount){
87-     int time = 3, n=1;
88-     System.out.println("Rate of intrest is 0.2");
89-     this.balance = this.balance*Math.pow(1+(0.2)/n, (n*time));
90- }
91- }
92-
93- class Main{
94-     public static void main(String args[]){
95-         int choice,ch,n=1;
96-         double amount;
97-         Scanner s1 = new Scanner(System.in);
98-         curr_acct c = new curr_acct("Aditi", 12345, 50000);
99-         sav_acct s = new sav_acct("Aditi", 12345, 50000);
100-         System.out.println("Press 1.For Current account\nPress 2.For Savings account");
101-         choice = s1.nextInt();
102-         switch(choice){
103-             case 1: System.out.println("****Current Account****");
104-                     while(n!=0){
105-                         System.out.println("1.AddBalance\n2.displayBalance\n3.withdraw\n4.checkbook\n5.Exit");
```

Balance: 48847.0

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Language Java

Main.java

```
110 case 1:
111     System.out.println("enter amount to be added:");
112     amount = s1.nextDouble();
113     c.addbal(amount);
114     break;
115
116 case 2:
117     c.display();
118     break;
119
120 case 3:
121     System.out.println("enter amount to be withdrawn:");
122     amount = s1.nextDouble();
123     c.withdraw(amount);
124     break;
125
126 case 4:
127     System.out.println("Enter the name of the reciever:");
128     reciever = s1.next();
129     System.out.println("Enter amount to be debited to reciever:");
130     recamount = s1.nextDouble();
131     if(recamount>c.balance){
132         System.out.println("Inssufficient Balance");
133     }
134     else{
135         System.out.println("Amount of " +recamount+ "sent to" +reciever);
136         c.balance = c.balance - recamount;
137         System.out.println("Balance: " +c.balance);
138         s.balance = c.balance;
139     }
140
141 case 5:
142     n=0;
143     break;
144
145 default: System.out.println("Invalid input");
146 }
147 }
```

input

Balance: 48847.0

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Language Java

Main.java

```
140
141
142         case 5:
143             n=0;
144             break;
145
146         default: System.out.println("Invalid input");
147     }
148     break;
149
150     case 2: System.out.println("****Savings Account****");
151     while(n!=0){
152         System.out.println("1.AddBalance\n2.displayBalance\n3.withdraw\n4.Exit");
153         ch = s1.nextInt();
154         switch(ch){
155             case 1:
156                 System.out.println("enter amount to be added:");
157                 amount = s1.nextDouble();
158                 s.addbal(amount);
159                 break;
160
161             case 2:
162                 s.display();
163                 break;
164
165             case 3:
166                 System.out.println("enter amount to be withdrawn:");
167                 amount = s1.nextDouble();
168                 s.withdraw(amount);
169                 break;
170
171             case 4:
172                 n=0;
173
174             default: System.out.println("Invalid input");
175         }
176     }
177     break;
```

input

Balance: 42847.0

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